"ASPHALTING OF BALANCE ROADS AT MATHRU LAYOUT IN WARD NO 04 OF YELAHANKA SATELLITE TOWN SUB DIVISION"

Quality Control Reports

First & Final Bill

QC ABSTRACT

ME OF WORK: Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite n Sub Division

NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-09-28-35 **Date: 20-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-4/W O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ(ಬ) ಬೆಂಗಳೂರು-೫೬

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-28-35**

Date: 23-06-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

b ID	:	CP-2022-09-28-35 **Date: 02-07-2022**
stomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
oject Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
gency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
urce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	28-06-2022
mple Type /Size	:	Precast Cover Slab (250 mm Thick)
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
te of test	:	28/06/2022

il. lo.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.48	250.63	2.756	31561	720.5	22.8	21.2	26.5
2	Cover Slab-2	200.63	250.72	2.895	31608	735.5	23.3	21.6	27.1
3	Cover Slab-3	200.93	250.89	2.935	31703	820.5	25.9	24.1	30.1

The results obtained are satisfactory as per standard requirements

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ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/07/2022

Lab ID	:	CP-2022-09-28-35
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-2022
Customer ID	:	Drain Bottom Raft-Mathru Layout Siradi Sai Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Mathru Layout Siradi Sai Main Road	M20	26/06/2022	24/07/2022	149.05 X 151.33 X 151.35	22556	8.829	530.5	23.5	22.9
2	Drain Bottom Raft-Mathru Layout Siradi Sai Main Road	M20	26/06/2022	24/07/2022	151.39 X 149.34 X 151.66	22608	8.696	501.0	22.2	
3	Drain Bottom Raft-Mathru Layout Siradi Sai Main Road	M20	26/06/2022	24/07/2022	150.64 X 151.97 X 149.14	22892	8.417	527.2	23.0	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-100

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

ID	:	CP-2022-09-28-35
omer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ect Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
ncy	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
omer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
ce of Sample	:	Sample supplied by Agency
ple Condition	:	Satisfactory
of Receipt	:	30-05-2022
tomer ID	:	Drain Side Wall-Mathru Layout Siradi Sai Main Road
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	05/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	150.65 X 151.74 X 149.08	22860	9.077	418.1	18.3	18.3
	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	149.70 X 149.68 X 150.20	22406	8.778	407.1	18.2	
	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	150.26 X 149.31 X 151.21	22435	8.697	413.4	18.4	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

b ID	:	CP-2022-09-28-35
stomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ject Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
ency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
urce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	30-05-2022
stomer ID	:	Drain Side Wall-Mathru Layout Siradi Sai Main Road
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
te of test	:	05/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	151.66 X 149.45 X 151.27	22666	8.410	411.3	18.1	18.4
2	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	150.66 X 149.99 X 149.97	22598	8.291	415.3	18.4	
3	Drain Side Wall-Mathru Layout Siradi Sai Main Road	M20	28/06/2022	05/07/2022	151.12 X 150.87 X 151.29	22799	8.903	424.3	18.6	

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Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 06/07/2022

Lab ID	:	CP-2022-09-28-35
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-2022
Customer ID	:	Culvert Bottom Slab-Siradi Sai Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Slab-Siradi Sai Main Road	M20	29/06/2022	06/07/2022	150.13 X 150.82 X 151.28	22643	8.160	425.8	18.8	18.6
2	Culvert Bottom Slab-Siradi Sai Main Road	M20	29/06/2022	06/07/2022	150.94 X 149.18 X 150.67	22517	8.653	408.7	18.1	
3	Culvert Bottom Slab-Siradi Sai Main Road	M20	29/06/2022	06/07/2022	149.98 X 149.29 X 149.14	22390	8.753	418.8	18.7	

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R HARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106"

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 08/07/2022

Lab ID	:	CP-2022-09-28-35
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-2022
Customer ID	:	Culvert Side Wall-Siradi Sai Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C15
Date of test	:	08/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	08/07/2022	151.26 X 151.09 X 149.22	22854	8.821	433.1	18.9	18.7
2	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	08/07/2022	151.83 X 151.82 X 149.17	23051	8.145	430.9	18.7	
3	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	08/07/2022	151.25 X 151.22 X 150.81	22873	8.507	419.5	18.3	

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Format No: CP/TF/01

Date: 29/07/2022

ID	:	CP-2022-09-28-35
omer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
ress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ject Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
ncy	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O 21/2022-23
urce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	03-07-2022
stomer ID	:	Culvert Side Wall-Siradi Sai Main Road
mple Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	29/07/2022	150.15 X 150.90 X 151.10	22656	9.004	537.9	23.7	23.3
2	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	29/07/2022	149.34 X 149.88 X 150.21	22383	8.874	502.8	22.5	
3	Culvert Side Wall-Siradi Sai Main Road	M20	01/07/2022	29/07/2022	150.43 X 149.39 X 149.90	22473	8.828	529.8	23.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 05-07-2022

ab ID	:	CP-RW-2022-09-28-35
astomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ddress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
roject Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	03-07-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.1%	
Combined Flakiness and Elongation Index for WMM	21.3%	

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TESTS RESULTS ON STABILITY OF MIX

Date: 09-07-2022

Lab ID	:	CP-RW-2022-09-28-35
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-2022
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	06-07-2022

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.54	11.68	9KN(Min)
2	Marshal flow at 60°C, mm	3.62	3.78	2-4
3	Percent air Voids	4.72	4.52	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.62	14.88	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	72.85	65-75
6	Density, g/cc	2.41	2.43	–

• The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-09-28-35 Date: 10-07-2022
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2022
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	08-07-2022
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	21	21	0.4	99.6	90-100
9.5	688	709	14.2	85.8	70-88
4.75	1224	1933	38.7	61.3	53-71
2.36	799	2732	54.6	45.4	42-58
1.18	379	3111	62.2	37.8	34-48
0.6	349	3460	69.2	30.8	26-38
0.3	489	3949	79.0	21.0	18-28
0.15	401	4350	87.0	13.0	12-20
0.075	428	4778	95.6	4.4	4-10
PAN	222	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2022-09-28-35 **Date: 11-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2022
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	08-07-2022
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	98.0	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.5	1.5		

• The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2022-09-28-35 **Date: 11-07-2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division

Agency : Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 08-07-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 08-07-2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.76	11.63	10KN(min)
2	Marshal flow at 60°C, mm	3.72	3.65	2-4
3	Percent air Voids	4.98	4.85	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.77	14.89	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.75	72.63	65-75
6	Density, g/cc	2.28	2.26	-

• The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-RW-2022-09-28-35

Date: 15-07-2022

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	99	104	22.1	77.9	70-88
4.75	103	207	43.9	56.1	53-71
2.36	51	258	54.8	45.2	42-58
1.18	26	284	60.3	39.7	34-48
0.6	21	305	64.8	35.2	26-38
0.3	53	358	76.0	24.0	18-28
0.15	38	396	84.1	15.9	12-20
0.075	42	438	93.0	7.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	101	109	23.2	76.8	70-88
4.75	106	215	45.8	54.2	53-71
2.36	39	254	54.2	45.8	42-58
1.18	25	279	59.5	40.5	34-48
0.6	23	302	64.4	35.6	26-38
0.3	54	356	75.9	24.1	18-28
0.15	32	388	82.7	17.3	12-20
0.075	49	437	93.2	6.8	4-10

• The results obtained are satisfactory as per standard requirements.

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ಜ.ಬ.ಎಂ.ಪ, ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2022-09-28-35 **Date: 07-07-2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division

Agency : Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-2022

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)

Date of Test : 05-07-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-09-28-35** **Date: 15-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Asphalting of Balance Roads at Mathru Layout in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/21/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-2022
Type of Mix	:	Tack coat
Date of Test	:	14-07-2022

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.267
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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